

AMENDMENTS TO THE ABSTRACT OF THE DISCLOSURE

Please amend the Abstract by rewriting same to read as follows.

~~The present invention is directed to a~~ A signal processing apparatus adapted for correcting non-linear distortion of a reproduction signal, ~~which comprises~~ includes a secondary adaptive equalizing filter ~~(16)~~ connected in parallel with a primary adaptive equalizing filter ~~(15)~~ ~~in order~~ to correct non-linear distortion ~~that~~ in an analog equalized signal $x_e(k)$ ~~has~~. Filter outputs of the primary adaptive equalizing filter ~~(15)~~ and the secondary adaptive equalizing filter ~~(16)~~ are added at an adder ~~(17)~~. The, and the added output thus obtained is delivered to a phase interpolation filter ~~(18)~~ as an equalized output $y(k)$. The phase interpolation filter ~~(18)~~ performs interpolation of phase on the basis of a filter output of the primary adaptive equalizing filter ~~(15)~~ and a filter output of the secondary adaptive equalizing filter ~~(16)~~. A filter output of the phase interpolation filter ~~(18)~~ is delivered to an ~~ITR-PLL~~ Information Technology research-phase-locked loop circuit ~~(19)~~.